

Complete each of the questions on loose leaf.

1) Dividing

a) $-72 \div (-6)$ b) $75 \div 25$ c) $\frac{-16}{16}$ d) $-380 \div 38$ e) $\frac{0}{-10}$

f) $\frac{-50}{-10}$ g) $45 \div (-15)$ h) $\frac{-50}{-2}$ i) $\frac{125}{-25}$

2) Find the Quotient

a) $\frac{(-4)(-5)}{-2}$ b) $\frac{(-11)(-9)}{3}$ c) $\frac{(-6)(9)}{-3}$ d) $\frac{(12)(-10)}{(-5)(-4)}$

e) $\frac{(8)(10)}{(-2)(-5)}$ f) $\frac{(-27)(6)}{(-18)(3)}$ g) $\frac{-7(-8)(-2)}{4(2)(-1)}$ h) $\frac{6(-6)(-3)}{-2(-9)}$

3) What is true about the integers if their quotient gives this result?

a) Positive b) negative c) one d) zero

4) The high temperature for a week in Fredericton in December were -4°C , 2°C , 4°C , -6°C , -10°C , -12°C , and -16°C . What was the average high temperatures?

5) The product of two integers is 899. If one integer is -31, what is the other?

6) If a submarine descends (goes down) at the rate of 50 m/min, how long will it take to descend from sea level to -1350 m?

7) Air temperature decreases about 6°C for every 1 km increase in altitude. The air temperature at the start of a balloon ride was 8°C and at the highest point of the ride was -10°C . What was the greatest height reached?

8) Evaluate when $a = 6$, $b = -4$, and $c = -3$

a) $\frac{ab}{c}$ b) $\frac{-2bc}{a}$ c) $\frac{a^2c}{b}$